BULLETIN OF BUSINESS RESEARCH

CENTER FOR BUSINESS AND ECONOMIC RESEARCH

THE OHIO STATE UNIVERSITY • VOLUME LV, NUMBER 6 • JUNE 1980

By MARTHA N. STRATTON

Personal Income Estimates for Ohio and Ohio Counties —U.S. Bureau of Economic Analysis

Preliminary estimates of 1979 state and national total personal income and per capita income, recently completed by the Bureau of Economic Analysis in the U.S. Department of Commerce, show Ohio total income as $94 billion and per capita income as $8,775 and the corresponding United States total income as $1,916 billion and per capita income as $8,706. Ohio's per capita income ended the decade of the 1970s essentially in the relative position vs. the nation that prevailed throughout the period. In 1979 Ohio's per capita income represented 101 percent of the national average. From 1970 through 1978 Ohio per capita income had ranged from slightly above 100 percent to 101 percent of the U.S. average in all years but 1975, when the Ohio figure dropped to 98 percent of the U.S. average.

In current dollars, Ohio per capita income more than doubled in the 1970s, as 1979 income was 122 percent above the 1970 per capita income of $3,949. Over the same time span, the increase in the U.S. Consumer Price Index—the most commonly used, though less than perfect, measure of inflation—was 87 percent. Factoring the CPI increase out of the per capita income change leaves the average Ohioan with real income 19 percent higher at the end of the period than in the initial year of the period. Considering that the Consumer Price Index is thought to overstate inflation and that the period ended with an 11 percent jump in the CPI in 1979 from 1978, real income growth was good through the 1970s for individuals both in Ohio and in the U.S. (where a 1979-from-1970 increase of 124 percent in current-dollar income similarly factored down to a 20 percent increase).

Looking at the relationship of Ohio and the U.S. in terms of total personal income, however, points up a slightly declining trend in the state's position through the 1970s. As a percent of U.S. total personal income, Ohio total income declined gradually from 5.3 percent in 1970 to 4.9 percent in 1978—and again showed 4.9 percent in 1979. Ohio kept pace with the U.S. on a per capita income basis because Ohio's share of U.S. population also declined during the 1970s, from 5.2 percent in 1970 to 4.9 percent in 1979.

Regional Estimates of Personal Income

At about the same time that U.S. and state total income estimates for 1979 became available, the Regional Economic Measurement Division of the Bureau of Economic Analysis released for the first time its 1978 tabulations of *detailed* personal income data, by major sources, at the county level. Data for 17 Standard Metropolitan Statistical Areas (SMSAs) totally or partially in Ohio and for Ohio's 88 counties were supplied to the Center for Business and Economic Research, as one of the BEA User Group Members. In the same packet, revisions of detailed county and SMSA data for 1973 through 1977 and comparable state of Ohio data for 1973 through 1978 were released by the BEA—along with annual summary figures for total personal income, per capita personal income, and population on a consistent basis for the years 1959, 1962, and 1965 through 1978 in all of these areas.

While the preliminary 1979 figures offer an early evaluation of the more current period on a statewide basis, 1973-1978 data for total personal income, per capita personal income, and population in individual Ohio counties and in SMSAs which contain Ohio counties are presented in Tables 1-6 (pages 2-6) to provide county and area comparisons. Figures have been adjusted by BEA to reflect income at the place of residence.

(Continued on page 2)

Also In This Issue

Statistical Summary ..... *pages* S-1 *through* S-4
- Business Conditions in Ohio and the United States ..... *page* S-1
- Business Conditions in the 8 Largest Ohio Cities ..... *page* S-2
- Number Employed, Payrolls, and Man-Hours in Ohio Industry ..... *page* S-3
- Ohio Retail Sales Trends ..... *page* S-4

TABLE 1—TOTAL PERSONAL INCOME, BY COUNTY, OHIO, 1973-1978

County	Total Personal Income (Million Dollars)						Percent of Ohio Total	Percent Increase
	1973	1974	1975	1976	1977	1978	1978	1978 from 1973
Adams	57.7	67.8	72.0	78.8	90.1	101.2	0.12	75
Allen	535.5	587.5	615.0	678.7	767.0	868.4	1.03	62
Ashland	199.8	221.8	234.9	260.1	286.6	326.3	0.39	63
Ashtabula	439.1	486.3	512.3	567.0	626.5	703.6	0.83	60
Athens	179.7	197.5	212.7	236.5	265.8	291.5	0.35	62
Auglaize	191.0	206.0	222.1	241.0	271.7	301.5	0.36	58
Belmont	360.6	396.0	440.3	496.7	548.8	604.4	0.72	68
Brown	98.4	113.9	122.8	138.0	152.6	169.6	0.20	72
Butler	1,082.9	1,198.3	1,304.3	1,476.4	1,655.1	1,811.0	2.14	67
Carroll	83.4	95.0	102.3	115.0	126.8	143.7	0.17	72
Champaign	144.4	159.9	174.1	190.5	207.4	226.0	0.27	56
Clark	729.9	781.2	826.7	904.2	995.3	1,105.2	1.31	51
Clermont	437.2	492.9	540.6	623.3	719.7	826.0	0.98	89
Clinton	176.5	193.8	208.7	232.0	261.0	286.6	0.34	62
Columbiana	455.9	511.4	543.1	602.5	669.0	751.2	0.89	65
Coshocton	161.7	175.3	186.8	211.2	234.0	262.8	1.31	63
Crawford	241.8	265.3	280.5	309.3	342.1	377.1	0.45	56
Cuyahoga	9,764.6	10,612.8	11,104.3	12,109.1	13,231.8	14,654.4	17.35	50
Darke	234.9	255.5	277.9	303.2	332.4	367.2	0.43	56
Defiance	197.4	204.9	216.2	256.4	278.9	320.2	0.38	62
Delaware	222.4	244.7	257.9	293.3	340.1	383.3	0.46	72
Erie	413.3	437.3	463.9	510.4	568.2	635.5	0.75	54
Fairfield	361.3	411.3	452.7	515.0	580.6	659.8	0.78	83
Fayette	103.4	120.2	129.2	143.8	162.2	176.5	0.21	71
Franklin	4,309.1	4,664.5	4,967.1	5,467.6	6,093.5	6,745.9	7.98	56
Fulton	182.4	192.1	206.7	229.3	251.7	283.2	0.34	55
Gallia	111.9	122.1	124.6	138.6	161.6	185.1	0.22	65
Geauga	339.9	376.0	406.2	458.8	518.6	586.7	0.69	73
Greene	609.3	648.9	705.8	785.2	866.2	954.3	1.13	57
Guernsey	159.1	176.9	186.3	206.5	229.4	255.7	0.30	61
Hamilton	4,875.8	5,305.5	5,681.7	6,178.2	6,753.2	7,588.8	8.98	56
Hancock	318.8	345.0	358.5	406.4	451.6	505.4	0.60	59
Hardin	135.2	150.2	157.6	171.9	193.6	212.0	0.25	57
Harrison	75.1	81.3	98.3	109.7	117.0	122.4	0.14	63
Henry	145.4	160.4	171.0	195.2	207.6	228.4	0.27	57
Highland	115.2	128.0	136.6	151.2	175.8	195.5	0.23	70
Hocking	78.4	86.8	94.0	106.5	118.1	132.8	0.16	69
Holmes	81.6	87.6	98.4	108.1	120.9	138.3	0.16	70
Huron	238.3	260.8	277.9	313.5	352.3	391.5	0.46	64
Jackson	92.2	105.1	112.4	124.2	139.4	156.4	0.19	70
Jefferson	426.3	489.0	533.0	596.2	654.4	706.0	0.84	66
Knox	173.0	189.1	198.8	224.5	247.4	283.2	0.34	64
Lake	1,048.1	1,171.5	1,246.9	1,390.7	1,544.1	1,724.6	2.04	65
Lawrence	218.1	244.9	263.3	296.4	327.6	369.0	0.44	69
Licking	488.2	539.8	577.2	652.0	729.2	824.0	0.98	69
Logan	168.3	189.9	201.8	228.9	257.0	285.5	0.34	70
Lorain	1,293.2	1,418.1	1,505.6	1,678.8	1,922.9	2,132.1	2.52	65
Lucas	2,565.3	2,744.4	2,914.4	3,232.7	3,536.0	3,891.6	4.61	52
Madison	125.9	146.0	157.6	170.4	192.1	211.1	0.25	68
Mahoning	1,445.6	1,597.5	1,671.9	1,843.2	2,044.9	2,227.3	2.64	54
Marion	308.5	341.1	364.6	416.3	466.6	509.9	0.60	65
Medina	454.2	515.7	568.8	646.4	760.4	880.5	1.04	94
Meigs	80.5	92.0	96.0	108.2	118.2	132.7	0.16	65
Mercer	172.4	186.6	192.2	216.0	238.7	281.7	0.33	63
Miami	464.0	504.7	531.3	593.0	672.4	741.8	0.88	60
Monroe	50.0	58.3	58.3	70.4	83.6	95.8	0.11	92
Montgomery	3,123.5	3,295.3	3,524.5	3,930.2	4,311.5	4,732.6	5.60	52
Morgan	51.6	55.8	60.9	67.2	76.5	85.1	0.10	61
Morrow	92.1	99.5	98.9	115.5	132.6	146.3	0.17	59
Muskingum	330.4	361.5	390.5	437.8	484.6	544.0	0.64	65
Noble	35.0	39.4	41.2	45.6	51.2	58.0	0.07	66
Ottawa	199.5	213.9	229.0	252.1	277.7	306.6	0.36	54
Paulding	97.9	103.3	109.4	124.6	136.6	151.7	0.18	55
Perry	99.8	108.1	118.6	132.2	146.8	163.8	0.19	64
Pickaway	174.1	196.3	209.4	228.0	261.9	288.1	0.34	66
Pike	65.0	68.8	74.8	85.0	97.6	112.0	0.13	78
Portage	533.7	589.6	635.5	705.7	783.0	880.1	1.04	65
Preble	157.9	167.1	172.1	190.9	210.1	232.3	0.28	47
Putnam	139.7	154.2	165.4	186.3	202.0	227.4	0.27	63
Richland	652.1	680.0	701.8	781.2	887.7	968.3	1.15	48
Ross	241.2	273.7	289.8	324.1	369.9	414.7	0.49	72
Sandusky	292.0	317.3	338.5	374.7	418.3	464.2	0.55	59
Scioto	284.2	308.2	327.9	369.1	410.0	455.5	0.54	60
Seneca	302.0	329.5	336.7	378.2	420.2	463.2	0.55	53
Shelby	185.5	203.7	210.0	237.0	265.9	299.0	0.35	61
Stark	1,827.0	2,013.4	2,142.3	2,332.8	2,585.6	2,896.3	3.43	59
Summit	2,801.8	3,019.5	3,170.5	3,429.1	3,820.2	4,215.5	4.99	50
Trumbull	1,299.5	1,383.7	1,432.6	1,616.3	1,782.4	2,011.7	2.38	55
Tuscarawas	342.4	379.9	403.9	445.3	497.7	558.4	0.66	63
Union	116.6	131.6	144.5	162.3	183.8	204.2	0.24	75
Van Wert	157.3	169.0	177.0	200.2	220.6	246.7	0.29	57
Vinton	29.0	32.7	33.7	38.1	43.7	52.1	0.06	80
Warren	374.3	404.3	435.7	506.3	577.3	652.8	0.77	74
Washington	228.5	268.0	284.4	324.5	361.9	406.6	0.48	78
Wayne	414.0	448.5	479.6	536.8	594.9	679.1	0.80	64
Williams	174.2	183.9	194.1	221.3	248.9	277.6	0.33	59
Wood	464.4	507.3	547.2	620.6	696.4	777.1	0.92	67
Wyandot	107.8	116.9	117.8	136.4	151.1	164.4	0.19	52
OHIO, TOTAL	53,614.0	58,380.5	61,954.6	68,539.0	75,968.1	84,455.6	100.00	58

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

TABLE 2—PER CAPITA PERSONAL INCOME, BY COUNTY, OHIO, 1973-1978

County	Per Capita Personal Income (Dollars)						Percent of Ohio Avg.	Percent Increase
	1973	1974	1975	1976	1977	1978	1978	1978 from 1973
Adams	2,680	3,058	3,304	3,490	3,948	4,274	54	59
Allen	4,897	5,364	5,624	6,290	7,089	8,015	102	64
Ashland	4,541	5,046	5,274	5,910	6,488	7,218	92	59
Ashtabula	4,409	4,855	5,087	5,703	6,294	6,974	89	58
Athens	3,220	3,711	4,144	4,703	5,065	5,314	68	65
Auglaize	4,755	5,049	5,241	5,859	6,588	7,244	92	52
Belmont	4,378	4,830	5,339	6,016	6,711	7,397	94	69
Brown	3,383	3,878	4,099	4,492	5,041	5,455	69	61
Butler	4,535	4,956	5,327	6,008	6,617	7,064	90	56
Carroll	3,552	3,918	4,163	4,608	4,979	5,516	70	55
Champaign	4,559	5,005	5,471	5,915	6,396	6,939	88	52
Clark	4,629	5,010	5,346	5,972	6,620	7,338	93	59
Clermont	4,276	4,722	4,955	5,618	6,293	6,876	88	61
Clinton	5,521	5,986	6,415	7,128	7,947	8,691	111	57
Columbiana	4,107	4,597	4,865	5,389	5,939	6,576	84	60
Coshocton	4,633	5,051	5,315	6,102	6,800	7,581	96	64
Crawford	4,711	5,224	5,570	6,164	6,891	7,630	97	62
Cuyahoga	5,929	6,547	6,947	7,671	8,485	9,503	121	60
Darke	4,528	4,792	5,190	5,595	6,166	6,849	87	51
Defiance	5,368	5,539	5,819	6,903	7,459	8,435	107	57
Delaware	4,645	4,887	5,162	5,815	6,597	7,217	92	55
Erie	5,335	5,654	5,988	6,635	7,387	8,315	106	56
Fairfield	4,555	5,011	5,367	6,008	6,706	7,427	95	63
Fayette	3,935	4,583	4,950	5,478	6,175	6,765	86	72
Franklin	5,035	5,423	5,760	6,345	7,043	7,737	98	54
Fulton	5,210	5,396	5,826	6,395	6,926	7,798	99	50
Gallia	4,176	4,476	4,317	4,834	5,379	6,195	79	48
Geauga	5,163	5,663	5,965	6,735	7,329	8,048	102	56
Greene	4,784	5,149	5,608	6,141	6,748	7,400	94	55
Guernsey	4,055	4,451	4,694	5,262	5,889	6,545	83	61
Hamilton	5,337	5,857	6,381	6,943	7,614	8,572	109	61
Hancock	5,104	5,494	5,740	6,552	7,293	8,097	103	59
Hardin	4,184	4,723	4,970	5,377	6,090	6,498	83	55
Harrison	4,231	4,552	5,546	6,247	6,749	6,952	88	64
Henry	5,124	5,687	6,086	6,996	7,425	7,776	99	52
Highland	3,807	4,157	4,482	4,771	5,498	6,211	79	63
Hocking	3,727	4,010	4,339	4,831	5,317	5,993	76	61
Holmes	3,333	3,511	3,894	4,274	4,720	5,319	68	60
Huron	4,623	5,042	5,268	6,008	6,719	7,327	93	58
Jackson	3,234	3,671	3,857	4,184	4,707	5,233	67	62
Jefferson	4,441	5,162	5,603	6,347	7,008	7,587	97	71
Knox	4,039	4,368	4,565	5,197	5,611	6,258	80	55
Lake	5,197	5,754	5,959	6,644	7,370	8,136	104	57
Lawrence	3,641	4,073	4,456	4,841	5,306	5,925	75	63
Licking	4,420	4,831	5,026	5,717	6,341	7,019	89	59
Logan	4,607	5,187	5,397	6,144	6,899	7,613	97	65
Lorain	4,897	5,311	5,641	6,391	7,175	7,861	100	61
Lucas	5,294	5,689	6,068	6,857	7,572	8,384	107	58
Madison	4,282	4,745	4,877	5,326	6,033	6,550	83	53
Mahoning	4,733	5,168	5,716	6,129	6,802	7,425	95	57
Marion	4,660	5,068	5,388	6,219	7,021	7,665	98	64
Medina	4,980	5,445	5,740	6,355	7,154	7,870	100	58
Meigs	3,853	4,346	4,500	5,004	5,423	5,976	76	55
Mercer	4,624	4,978	5,083	5,767	6,305	7,275	93	57
Miami	5,314	5,788	6,067	6,790	7,677	8,419	107	58
Monroe	3,155	3,697	3,711	4,479	5,225	5,834	74	85
Montgomery	5,234	5,575	5,970	6,725	7,449	8,160	104	56
Morgan	3,851	4,196	4,545	4,999	5,741	6,182	79	61
Morrow	3,907	4,138	4,041	4,805	5,449	5,837	74	49
Muskingum	4,114	4,536	4,821	5,416	5,936	6,643	85	61
Noble	3,251	3,646	3,683	4,066	4,550	5,223	66	61
Ottawa	5,115	5,571	5,848	6,643	7,175	7,947	101	55
Paulding	4,888	5,106	5,324	6,155	6,712	7,427	95	52
Perry	3,369	3,817	4,000	4,586	5,057	5,443	69	62
Pickaway	4,056	4,525	4,747	5,228	5,988	6,523	83	61
Pike	3,137	3,424	3,620	4,090	4,659	5,111	65	63
Portage	4,083	4,461	4,812	5,322	5,924	6,605	84	62
Preble	4,425	4,709	4,770	5,250	5,733	6,260	80	41
Putnam	4,368	4,865	5,141	5,763	6,332	7,287	93	67
Richland	4,986	5,214	5,363	5,970	6,821	7,432	95	49
Ross	3,930	4,495	4,704	5,295	5,939	6,580	84	67
Sandusky	4,639	5,103	5,381	6,029	6,722	7,435	95	60
Scioto	3,592	3,898	4,100	4,433	4,968	5,501	70	53
Seneca	4,923	5,388	5,557	6,319	7,025	7,713	98	57
Shelby	4,711	5,074	5,175	5,912	6,572	7,234	92	54
Stark	4,859	5,253	5,627	6,203	6,871	7,669	98	58
Summit	5,147	5,615	5,875	6,438	7,251	8,049	102	56
Trumbull	5,481	5,749	5,868	6,743	7,378	8,185	104	49
Tuscarawas	4,321	4,778	5,038	5,538	6,193	6,967	89	61
Union	4,586	4,761	5,366	5,925	6,150	6,815	87	49
Van Wert	5,218	5,703	5,986	6,815	7,342	8,099	103	55
Vinton	2,822	3,183	3,251	3,686	4,092	4,759	61	69
Warren	4,276	4,641	5,021	5,697	6,366	7,025	89	64
Washington	3,889	4,537	4,728	5,443	6 330	6,622	84	70
Wayne	4,568	4,932	5,076	5,738	6,357	7,053	90	54
Williams	5,020	5,259	5,578	6,373	7,144	7,917	101	58
Wood	4,764	5,010	5,443	6,124	6,802	7,404	94	55
Wyandot	4,795	5,168	5,195	6,099	6,860	7,541	96	57
OHIO, AVERAGE	4,990	5,433	5,771	6,411	7,102	7,857	100	57

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

TABLE 3—POPULATION, BY COUNTY, OHIO, 1973-1978

County	Population (*Thousands*)						Percent of Ohio Total	Percent Change
	1973	1974	1975	1976	1977	1978	1978	1978 from 1973
Adams	21.5	22.2	21.8	22.6	22.8	23.7	0.22	10.2
Allen	109.3	109.5	109.3	107.9	108.2	108.3	1.01	— 0.9
Ashland	44.0	44.0	44.5	44.0	44.2	45.2	0.42	2.7
Ashtabula	99.6	100.2	100.7	99.4	99.5	100.9	0.94	1.3
Athens	55.8	53.2	51.3	50.3	52.5	54.9	0.51	— 1.6
Auglaize	40.2	40.8	42.4	41.1	41.2	41.6	0.39	3.5
Belmont	82.4	82.0	82.5	82.6	81.8	81.7	0.76	— 0.8
Brown	29.1	29.4	30.0	29.8	30.3	31.1	0.29	6.9
Butler	238.8	241.8	244.8	245.7	250.1	256.4	2.39	7.4
Carroll	23.5	24.2	24.6	25.0	25.5	26.1	0.24	11.1
Champaign	31.7	32.0	31.8	32.2	32.4	32.6	0.30	2.8
Clark	157.7	155.9	154.6	151.4	150.4	150.6	1.40	— 4.5
Clermont	102.2	104.4	109.1	110.9	114.4	120.1	1.12	17.5
Clinton	32.0	32.4	32.5	32.5	32.8	33.0	0.31	3.1
Columbiana	111.0	111.3	111.6	111.8	112.6	114.2	1.06	2.9
Coshocton	34.9	34.7	35.2	34.6	34.4	34.7	0.32	— 0.6
Crawford	51.3	50.8	50.4	50.2	49.6	49.4	0.46	— 3.7
Cuyahoga	1,646.9	1,620.9	1,598.4	1,578.6	1,559.5	1,542.1	14.35	— 6.4
Darke	51.9	53.3	53.6	54.2	53.9	53.6	0.50	3.3
Defiance	36.8	37.0	37.1	37.1	37.4	38.0	0.35	3.3
Delaware	47.9	50.1	50.0	50.4	51.5	53.1	0.49	10.9
Erie	77.5	77.3	77.5	76.9	76.9	76.4	0.71	— 1.4
Fairfield	79.3	82.1	84.4	85.7	86.6	88.8	0.83	12.0
Fayette	26.3	26.2	26.1	26.2	26.3	26.1	0.24	— 0.8
Franklin	855.9	860.2	862.3	861.7	865.1	870.6	8.10	1.7
Fulton	35.0	35.6	35.5	35.8	36.3	36.3	0.34	3.7
Gallia	26.8	27.3	28.9	28.7	30.0	29.9	0.28	11.6
Geauga	65.8	66.4	68.1	68.1	70.8	72.9	0.68	10.8
Greene	127.3	126.0	125.9	127.9	128.4	129.0	1.20	1.3
Guernsey	39.2	39.8	39.7	39.3	39.0	39.1	0.36	— 0.3
Hamilton	913.6	905.9	890.5	889.9	886.9	885.3	8.24	— 3.1
Hancock	62.5	62.8	62.5	62.0	61.9	62.4	0.58	— 0.2
Hardin	32.3	31.8	31.7	32.0	31.8	32.6	0.30	0.9
Harrison	17.8	17.9	17.7	17.6	17.3	17.6	0.16	— 1.1
Henry	28.4	28.2	28.1	27.9	28.0	29.4	0.27	3.5
Highland	30.3	30.8	30.5	31.7	32.0	31.5	0.29	4.0
Hocking	21.0	21.7	21.7	22.0	22.2	22.2	0.21	5.7
Holmes	24.5	25.0	25.3	25.3	25.6	26.0	0.24	6.1
Huron	51.5	51.7	52.8	52.2	52.4	53.4	0.50	3.7
Jackson	28.5	28.6	29.1	29.7	29.6	29.9	0.28	4.9
Jefferson	96.0	94.7	95.1	94.9	93.4	93.1	0.87	— 3.0
Knox	42.8	43.3	43.5	43.2	44.1	45.3	0.42	5.8
Lake	201.7	203.6	209.2	209.3	209.5	212.0	1.97	5.1
Lawrence	59.9	60.1	59.1	61.2	61.8	62.3	0.58	4.0
Licking	110.4	111.7	114.8	114.1	115.0	117.4	1.09	6.3
Logan	36.5	36.6	37.4	37.3	37.3	37.5	0.35	2.7
Lorain	264.1	267.0	266.9	262.7	268.0	271.2	2.52	2.7
Lucas	484.5	482.4	480.3	471.5	467.0	464.2	4.32	— 4.2
Madison	29.4	30.8	32.3	32.0	31.8	32.2	0.30	9.5
Mahoning	305.4	309.1	292.5	300.7	300.6	300.0	2.79	— 1.8
Marion	66.2	67.3	67.7	66.9	66.5	66.5	0.62	0.5
Medina	91.2	94.7	99.1	101.7	106.3	111.9	1.04	22.7
Meigs	20.9	21.2	21.3	21.6	21.8	22.2	0.21	6.2
Mercer	37.3	37.5	37.8	37.4	37.9	38.7	0.36	3.8
Miami	87.3	87.2	87.6	87.3	87.6	88.1	0.82	0.9
Monroe	15.9	15.8	15.7	15.7	16.0	16.4	0.15	3.1
Montgomery	596.8	591.1	590.4	584.4	578.8	580.0	5.40	— 2.8
Morgan	13.4	13.3	13.4	13.4	13.3	13.5	0.13	0.7
Morrow	23.6	24.1	24.5	24.0	24.3	25.1	0.23	6.4
Muskingum	80.3	79.7	81.0	80.8	81.6	81.9	0.76	2.0
Noble	10.8	10.8	11.2	11.2	11.2	11.1	0.10	2.8
Ottawa	39.0	38.4	39.2	38.0	38.7	38.6	0.36	— 1.0
Paulding	20.0	20.2	20.5	20.2	20.4	20.4	0.19	2.0
Perry	29.6	28.3	29.7	28.8	29.0	30.1	0.28	1.7
Pickaway	42.9	43.4	44.1	43.6	43.7	44.2	0.41	3.9
Pike	20.1	20.1	20.7	20.8	20.9	21.9	0.20	9.0
Portage	130.7	132.1	132.1	132.6	132.2	133.3	1.24	2.0
Preble	35.7	35.5	36.1	36.4	36.6	37.1	0.35	3.9
Putnam	32.0	31.7	32.2	32.3	31.9	31.2	0.29	— 2.5
Richland	130.8	130.4	130.9	130.8	130.1	130.3	1.21	— 0.4
Ross	61.4	60.9	61.6	61.2	62.3	63.0	0.59	2.6
Sandusky	63.0	62.2	62.9	62.1	62.2	62.4	0.58	— 1.0
Scioto	79.1	79.1	80.0	83.3	82.5	82.8	0.77	4.7
Seneca	61.4	61.2	60.6	59.9	59.8	60.1	0.56	— 2.1
Shelby	39.4	40.2	40.6	40.1	40.5	41.3	0.38	4.8
Stark	376.0	383.3	379.0	376.1	376.3	377.7	3.51	0.5
Summit	564.3	537.7	539.7	532.6	526.9	523.7	4.87	— 3.8
Trumbull	237.1	240.7	244.1	239.7	241.6	245.8	2.29	3.7
Tuscarawas	79.2	79.5	80.2	80.4	80.4	80.1	0.75	1.1
Union	25.4	27.6	26.9	27.4	29.9	30.0	0.28	18.1
Van Wert	30.1	29.6	29.6	29.4	30.1	30.5	0.28	1.3
Vinton	10.3	10.3	10.4	10.3	10.7	10.9	0.10	5.8
Warren	87.5	87.1	86.8	88.9	90.7	92.9	0.86	6.2
Washington	58.8	59.1	60.2	59.6	60.0	61.4	0.57	4.4
Wayne	90.6	90.9	94.5	93.6	93.6	96.3	0.90	6.3
Williams	34.7	35.0	34.8	34.7	34.8	35.1	0.33	1.2
Wood	97.5	101.3	100.5	101.3	102.4	105.0	0.98	7.7
Wyandot	22.5	22.6	22.7	22.4	22.0	21.8	0.20	— 3.1
OHIO, TOTAL	10,745.3	10,745.4	10,735.3	10,690.0	10,696.2	10,748.7	100.00	a

[a] Less than 0.05 percent change.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

BULLETIN OF BUSINESS RESEARCH

STATISTICAL SUMMARY

Center for Business and Economic Research

The Ohio State University

Volume LV, Number 6 • June 1980

Business Conditions in Ohio and the United States

ITEM	Unit or Index Base Period	OHIO Apr. 1980 (p)	OHIO Mar. 1980 (r)	OHIO Change From Last Month: Apr. 1980 from Mar. 1980	OHIO Change From Last Year: Apr. 1980 from Apr. 1979	OHIO Change From Last Year: 4 months 1980 from 1979	UNITED STATES Unit or Index Base Period	UNITED STATES Apr. 1980 (p)	UNITED STATES Mar. 1980 (r)	UNITED STATES Change From Last Month: Apr. 1980 from Mar. 1980	UNITED STATES Change From Last Year: Apr. 1980 from Apr. 1979	UNITED STATES Change From Last Year: 4 months 1980 from 1979
GENERAL BUSINESS				%	%	%				%	%	%
• Bank Debits[5, 11]	1967[f]	n.a.	n.a.	n.a.	n.a.	n.a.	*Bil. $ Ex. NY*[d, h]	n.a.	n.a.	n.a.	n.a.	n.a.
Commercial Failures—Number[12]	*Number*	n.a.	n.a.	n.a.	n.a.	n.a.	*Number*	n.a.	n.a.	n.a.	n.a.	n.a.
Commercial Failures Liabilities[12]	*Thous. Dol.*	n.a.	n.a.	n.a.	n.a.	n.a.	*Thous. Dol.*	n.a.	n.a.	n.a.	n.a.	n.a.
Life Insurance Sales[6]	*1967*	371	359	+ 3	+ 16	+ 12	*1967*	394	379	+ 4	+ 19	+ 16
INCOME												
• Total Personal Income[1, 13]	*Mil. Dol.*[d, h]	99,277	99,592	— x	+ 9	+ 9	*Bil. Dol.*[d, h]	2,070	2,070	+ x	+ 10	+ 11
Salaries & Wages Income[7, 13]	*Mil. Dol.*[d, h]	c	c	— 2	+ 2	— x	*Bil. Dol.*[d, h]	1,306	1,313	— 1	+ 8	+ 9
Nonagricultural Income[13]		b	b	b	b	b	*Bil. Dol.*[d, h]	2,028	2,026	+ x	+ 11	+ 11
Employee Earn.—Gross Wkly.: Mfg.[14, 15]	*Dollars*	336.94	339.05	— 1	+ 11	+ 5	*Dollars*	278.56	280.99	— 1	+ 9	+ 7
" " Const.[14, 15]	*Dollars*	435.71	441.86	— 1	+ 12	+ 10	*Dollars*	351.36	348.00	+ 1	+ 10	+ 7
Agr. Income (Cash Mktgs.)[16, 17]	*1957–59*	n.a.	n.a.	n.a.	n.a.	n.a.	*1967*	n.a.	n.a.	n.a.	n.a.	n.a.
EMPLOYMENT & UNEMPLOYMENT												
Civilian Labor Force[14, 15]	*Thousands*	4,957	4,926	+ 1	— x	— 1	*Thousands*	103,412	103,351	+ x	+ 2	+ 2
Civilian Employment[14, 15]	*Thousands*	4,595	4,602	— x	— 2	— 1	*Thousands*	96,566	96,546	+ x	+ 1	+ 1
Nonagricultural Employment[14, 15]	*Thousands*	4,446	4,438	+ x	— 1	+ x	*Thousands*	93,485	93,584	— x	+ 1	+ 1
Mfg. Prod. Employment[7, 15]	*1967*	72	75	— 3	— 12	— 10	*1967*	101	103	— 2	— 3	— 2
• Mfg. Prod. Payrolls[7, 15]	*1967*	168	174	— 3	— 3	— 7	*1967*	245	251	— 2	+ 5	+ 4
Average Weekly Hours—Mfgr. Prod.[7, 15]	*Number*	40.4	40.8	— 1	+ 2	— 2	*Number*	39.4	39.8	— 1	+ 3	— 1
Unemployment, Total—No.[14, 15]	*Thousands*	363	324	+ 12	+ 32	+ 12	*Thousands*	6,846	6,805	+ 1	+ 23	+ 12
Unemployment, Total—Rate[14, 15]	*Percent*	7.3	6.6				*Percent*	6.6	6.6			
Unemployment, Insured[14, 15]	*Thousands*	193	198	— 3	+ 65	+ 57	*Thousands*	3,627	3,652	— 1	+ 39	+ 24
Registered for Work, O.B.E.S.[14]	*Thousands*	384	379	+ 1	+ 15	+ 14		b	b	b	b	b
Unemployment Compensation Fund[14]	*Mil. Dol.*	247	285	— 33	— 13	— 15		b	b	b	b	b
PRODUCTION												
Gross National Product (Quarterly)[13]		b	b	b	b	b	*Bil. Dol.*[d, h]	n.a.	2,520	n.a.	n.a.	n.a.
Industrial Production[7, 11]	*1967*	c	c	— 4	— 11	— 13	*1967*[d]	149	151	— 2	— 2	— x
• Steel Production[18]	*Thous. Tons*	1,596	1,600	— x	— 17	— 15	*Thous. Tons*	10,658	11,439	— 7	— 13	— 7
Electric Power Production[8]	*1967[f]*	n.a.	n.a.	n.a.	n.a.	n.a.	*Mil. KWH*	n.a.	n.a.	n.a.	n.a.	n.a.
Bituminous Coal Production[19]	*Thous. Tons*	4,197	3,788	+ 11	+ 17	— 1	*Thous. Tons*					
Pig Iron Production[18]	*Thous. Tons*	1,065	1,042	+ 2	— 15	— 15	*Thous. Tons*	6,677	7,115	— 6	— 14	— 9
Machine Tools—Shipments[20]		b	b	b	b	b	*Mil. Dol.*	344.00	460.00	— 25	+ 13	+ 28
Machine Tools—New Orders[20]		b	b	b	b	b	*Mil. Dol.*	414.95	528.65	— 22	— 10	+ x
Durable Goods—New Orders[13]		b	b	b	b	b	*Mil. Dol.*[d]	72,458	77,546	— 7	— 5	— 2
CONSTRUCTION (Value of Contracts)												
• Total (Seas. Adj.)[9, 21]	*1967*[d]						*1967*[d]					
Total[9, 21]	*1967[f]*	160	159	+ x	— 45	— 17	*Mil. Dol.*	11,071	11,286	— 2	— 34	— 24
Residential Building[9, 21]	*1967[f]*	133	143	— 7	— 60	— 39	*Mil. Dol.*	4,373	4,585	— 5	— 39	— 25
Nonresidential Building[9, 21]	*1967[f]*	136	159	— 14	— 32	+ 4	*Mil. Dol.*	4,063	4,273	— 5	— 5	+ 3
Utilities and Non-Building Const.[9, 21]	*1967[f]*	284	200	+ 42	— 34	— 14	*Mil. Dol.*	2,635	2,429	+ 9	— 50	— 46
DISTRIBUTION												
Total Retail Sales[2, 13]	*1957–59*[d]	283	289	— 2	— 1	+ 2	*Mil. Dol.*[d]	74,774	76,534	— 2	+ 4	+ 8
Department Store Sales[2, 13]	*1957–59*[d]	248	281	— 12	+ 1	+ 1	*Mil. Dol.*[d]	7,448	7,564	— 2	+ 4	+ 10
• New Passenger Cars Registered[3, 22]	*1967*	96	107	— 10	— 31	— 15	*No.–49 sts.*	783,741	797,955	— 2	— 18	— 11
New Trucks Registered[3, 22]	*No.–44 cos.*	4,575	4,388	+ 4	— 42	— 40	*No.–48 sts.*	220,595	219,400	+ 1	— 29	— 26
Used Cars Registered[3]	*No.–33 cos.*	33,070	33,045	+ x	— 21	— 4		b	b	b	b	b
PRICES												
Consumer Price Index[15]:												
All Urban Consumers		b	b	b	b	b	*1967*	243	240	+ 1	+ 15	+ 14
Wage Earners & Clerical Workers		b	b	b	b	b	*1967*	243	240	+ 1	+ 15	+ 14
Producer Price Index[15]:												
All Commodities		b	b	b	b	b	*1967*	262	262	+ x	+ 14	+ 15
Finished Goods		b	b	b	b	b	*1967*	240	238	+ 1	+ 14	+ 13
Intermediate Materials		b	b	b	b	b	*1967*	275	273	+ x	+ 16	+ 18
Crude Materials		b	b	b	b	b	*1967*	297	303	— 2	+ 6	+ 11
Sensitive Indus. Commodities[15]		b	b	b	b	b	*1967*	302	317	— 5	+ 3	+ 13
BANKING AND FINANCE												
• Bank Loans, Large Banks—Total[11]	*Mil. Dol.*	25,803	25,787	+ x	+ 20	+ 21	*Mil. Dol.*	411,475	412,686	— x	+ 13	+ 15
" " " " Bus. & Agric.[11]	*Mil. Dol.*	9,378	9,271	+ 1	+ 20	+ 21	*Mil. Dol.*	166,147	166,171	— x	+ 16	+ 18
Stock Price Index—400 Indust.[23]		b	b	b	b	b	*1941–43 = 10*	113.7	118.3	— 4	+ x	+ 9
" " " 40 Utils.[23]		b	b	b	b	b	*1941–43 = 10*	48.5	45.6	+ 6	— 3	— 4
" " " 20 Trans.[23]		b	b	b	b	b	*1970 = 10*	14.6	15.5	— 6	+ 3	+ 15
Yield, Corp. AAA Bonds[23]		b	b	b	b	b	*Percent*	11.09	12.49	— 3	+ 34	+ 30

• Indicates series charted (page S-1). For sources and footnotes, see page S-3.

Business Conditions in the 8 Largest OHIO CITIES

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
AKRON					
Number Employed[7]:				%	%
Total*	1967	79	80	— 3	— 5
Manufacturing	"	57	57	— 9	— 10
Trade, Serv., & Utils.	"	109	111	+ 2	— x
Construction	"	50	47	— 16	— 6
Payrolls[7]:					
Total*	"	172	170	+ 13	+ 2
• Manufacturing	"	126	124	+ 11	— 4
Trade, Serv., & Utils.	"	267	266	+ 16	+ 7
Construction	"	111	105	— 6	+ 1
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	329.12	320.87	+ 19	+ 8
Manufacturing	"	382.06	372.39	+ 23	+ 8
Trade, Serv., & Utils.	"	255.23	247.77	+ 14	+ 8
Construction	"	422.11	425.15	+ 12	+ 8
Retail Sales[2]	%	c	c	— 8	+ 1
Auto Titles[3]:					
New Cars	No.	n.a.	n.a.	n.a.	n.a.
New Trucks	"	n.a.	n.a.	n.a.	n.a.
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	140	137	— 3	— 7
Value of Bldg. Const.[9]:					
Total	"	161	167	— 43	— 25
Residential	"	138	203	— 53	— 24
Nonresidential	"	184	129	— 33	— 26
Steel Production[18]	1967‡	b	b	b	b
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	237.0	237.5	— 1	— x
Civilian Employment	"	220.2	220.9	— 2	— 1
Unemp. Total—No.	"	16.8	16.6	+ 16	+ 9
Unemp., Total—Rate	%	7.1	7.0		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
CANTON					
Number Employed[7]:				%	%
Total*	1967	95	93	— 3	— 3
Manufacturing	"	87	86	— 6	— 6
Trade, Serv., & Utils.	"	109	108	+ 2	+ 1
Construction	"	77	74	— 8	— 9
Payrolls[7]:					
Total*	"	236	227	+ 4	+ 2
• Manufacturing	"	210	213	— 1	— 2
Trade, Serv., & Utils.	"	308	304	+ 11	+ 7
Construction	"	184	178	+ 16	+ 11
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	321.63	327.30	+ 5	+ 4
Manufacturing	"	352.69	361.36	+ 4	+ 3
Trade, Serv., & Utils.	"	256.46	257.82	+ 6	+ 5
Construction	"	450.14	451.56	+ 16	+ 12
Retail Sales[2]	%	c	c	— 3	+ 2
Auto Titles[3]:					
New Cars	No.	n.a.	n.a.	n.a.	n.a.
New Trucks	"	n.a.	n.a.	n.a.	n.a.
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	b	b	b	b
Value of Bldg. Const.[9]:					
Total	"	182	102	— 23	— 19
Residential	"	197	127	— 18	— 17
Nonresidential	"	163	71	— 30	— 21
Steel Production[18]	1967‡	b	b	b	b
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	170.6	170.3	+ 2	+ 2
Civilian Employment	"	158.2	158.9	— x	+ 1
Unemp. Total—No.	"	12.4	11.4	+ 41	+ 15
Unemp., Total—Rate	%	7.3	6.7		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
CINCINNATI					
Number Employed[7]:				%	%
Total*	1967	86	76	— 3	— 6
Manufacturing	"	64	65	— 17	— 17
Trade, Serv., & Utils.	"	109	87	+ 9	+ 3
Construction	"	69	70	— 22	— 8
Payrolls[7]:					
Total*	"	215	200	+ 1	— 5
• Manufacturing	"	156	158	— 14	— 18
Trade, Serv., & Utils.	"	297	257	+ 16	+ 7
Construction	"	174	179	— 15	+ 2
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	289.62	307.12	+ 6	+ 2
Manufacturing	"	335.22	333.03	+ 6	+ 1
Trade, Serv., & Utils.	"	227.98	266.57	+ 5	+ 1
Construction	"	446.24	447.64	+ 9	+ 11
Retail Sales[2]	%	c	c	— 2	+ 2
Auto Titles[3]:					
New Cars	No.	4,221	4,473	— 26	— 14
New Trucks	"	636	578	— 36	— 40
Retail Food Prices[15]	1967	262	260	+ 6	+ 6
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	b	b	b	b
Value of Bldg. Const.[9]:					
Total	"	71	152	— 86	— 41
Residential	"	44	73	— 90	— 60
Nonresidential	"	95	223	— 83	— 29
Steel Production[18]	1967‡	107	90	+ 8	— 8
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	416.6	413.0	— 2	— 2
Civilian Employment	"	390.4	391.1	— 3	— 2
Unemp. Total—No.	"	26.2	22.0	+ 33	+ x
Unemp., Total—Rate	%	6.3	5.3		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
CLEVELAND					
Number Employed[7]:				%	%
Total*	1967	86	89	— 8	— 5
Manufacturing	"	66	71	— 18	— 12
Trade, Serv., & Utils.	"	108	109	— x	+ x
Construction	"	69	63	— 4	— 1
Payrolls[7]:					
Total*	"	197	204	— 4	— 3
• Manufacturing	"	143	155	— 17	— 15
Trade, Serv., & Utils.	"	271	274	+ 7	+ 8
Construction	"	179	164	+ 4	+ 10
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	354.54	356.55	+ 5	+ 3
Manufacturing	"	374.90	375.93	+ 3	— 3
Trade, Serv., & Utils.	"	321.92	324.84	+ 7	+ 8
Construction	"	472.30	474.98	+ 9	+ 11
Retail Sales[2]	%	c	c	— 8	— 3
Auto Titles[3]:					
New Cars	No.	6,748	7,160	— 30	— 18
New Trucks	"	671	654	— 39	— 35
Retail Food Prices[15]	1967	250	250	+ 4	+ 5
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	b	b	b	b
Value of Bldg. Const.[9]:					
Total	"	87	96	— 16	+ 24
Residential	"	45	83	— 55	— 24
Nonresidential	"	125	108	+ 19	+ 51
Steel Production[18]	1967‡	124	126	— 13	— 6
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	727.4	725.0	— 2	— 2
Civilian Employment	"	682.1	684.3	— 3	— 3
Unemp. Total—No.	"	45.3	40.7	+ 23	+ 8
Unemp., Total—Rate	%	6.2	5.6		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
COLUMBUS					
Number Employed[7]:				%	%
Total*	1967	98	101	— 7	— 3
Manufacturing	"	63	71	— 18	— 11
Trade, Serv., & Utils.	"	123	125	— 3	— 1
Construction	"	68	63	+ 4	+ 12
Payrolls[7]:					
Total*	"	231	241	+ 1	+ 3
• Manufacturing	"	135	156	— 10	— 7
Trade, Serv., & Utils.	"	324	328	+ 4	+ 6
Construction	"	159	147	+ 17	+ 27
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	280.62	284.47	+ 9	+ 7
Manufacturing	"	336.41	343.67	+ 12	+ 6
Trade, Serv., & Utils.	"	234.04	234.84	+ 6	+ 7
Construction	"	380.35	392.02	+ 10	+ 13
Retail Sales[2]	%	c	c	— 7	— 1
Auto Titles[3]:					
New Cars	No.	4,062	4,604	— 25	— 14
New Trucks	"	877	747	— 13	— 21
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	b	b	b	b
Value of Bldg. Const.[9]:					
Total	"	99	231	— 67	— 8
Residential	"	146	146	— 70	— 25
Nonresidential	"	52	315	— 60	+ 12
Steel Production[18]	1967‡	b	b	b	b
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	423.4	423.1	— 2	— 2
Civilian Employment	"	403.4	404.7	— 2	— 1
Unemp. Total—No.	"	20.0	18.4	— 3	— 15
Unemp., Total—Rate	%	4.7	4.3		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
DAYTON					
Number Employed[7]:				%	%
Total*	1967	104	104	— 2	— 2
Manufacturing	"	66	68	— 9	— 8
Trade, Serv., & Utils.	"	160	160	+ 2	+ 2
Construction	"	84	69	+ 1	+ 5
Payrolls[7]:					
Total*	"	206	210	+ 7	+ 3
• Manufacturing	"	143	154	+ 3	— 4
Trade, Serv., & Utils.	"	346	339	+ 9	+ 9
Construction	"	203	169	+ 23	+ 18
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	349.50	360.49	+ 10	+ 5
Manufacturing	"	380.43	403.63	+ 11	+ 3
Trade, Serv., & Utils.	"	294.88	288.79	+ 7	+ 7
Construction	"	432.73	440.07	+ 23	+ 13
Retail Sales[2]	%	n.a.	n.a.	n.a.	n.a.
Auto Titles[3]:					
New Cars	No.	2,540	2,785	— 28	— 13
New Trucks	"	319	273	— 39	— 53
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	b	b	b	b
Value of Bldg. Const.[9]:					
Total	"	198	84	+ 62	+ 42
Residential	"	166	84	+ 9	— 40
Nonresidential	"	238	84	+183	+112
Steel Production[18]	1967‡	b	b	b	b
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	266.3	265.7	— 1	— 1
Civilian Employment	"	247.3	248.3	— 2	— 2
Unemp. Total—No.	"	19.1	17.4	+ 5	+ 14
Unemp., Total—Rate	%	7.2	6.5		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
TOLEDO					
Number Employed[7]:				%	%
Total*	1967	91	93	— 11	— 9
Manufacturing	"	61	65	— 33	— 26
Trade, Serv., & Utils.	"	121	121	+ 4	+ 1
Construction	"	73	68	+ 2	+ 17
Payrolls[7]:					
Total*	"	217	217	— 4	— 7
• Manufacturing	"	135	138	— 26	— 28
Trade, Serv., & Utils.	"	336	331	+ 13	+ 9
Construction	"	171	169	+ 13	+ 27
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	343.09	334.94	+ 12	+ 5
Manufacturing	"	377.16	350.92	+ 13	— 1
Trade, Serv., & Utils.	"	297.88	293.56	+ 13	+ 12
Construction	"	458.77	481.87	+ 8	+ 7
Retail Sales[2]	%	c	c	— 5	— 2
Auto Titles[3]:					
New Cars	No.				
New Trucks	"				
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	135	148	— 12	— 10
Value of Bldg. Const.[9]:					
Total	"	156	63	— 26	— 33
Residential	"	185	107	— 48	— 49
Nonresidential	"	140	40	+ 7	— 14
Steel Production[18]	1967‡	b	b	b	b
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	218.8	217.0	— 1	— 2
Civilian Employment	"	195.8	198.2	— 5	— 4
Unemp. Total—No.	"	23.0	18.8	+ 64	+ 26
Unemp., Total—Rate	%	10.5	8.6		

ITEM	Unit or Index Base Period	Apr. 1980 (p)	Mar. 1980 (r)	Change From Last Year: Apr. 1980 from Apr. 1979	Change From Last Year: 4 months 1980 from 1979
YOUNGSTOWN					
Number Employed[7]:				%	%
Total*	1967	81	81	— 5	— 4
Manufacturing	"	51	51	— 12	— 12
Trade, Serv., & Utils.	"	120	121	— 1	— x
Construction	"	50	45	+ 3	— 7
Payrolls[7]:					
Total*	"	185	183	+ 1	+ 1
• Manufacturing	"	131	128	— 7	— 7
Trade, Serv., & Utils.	"	296	299	+ 6	+ 9
Construction	"	132	123	+ 26	— 3
Emp. Earn.—Gross Wkly.[7]:					
All Industries*	$	317.61	317.22	+ 6	+ 5
Manufacturing	"	362.69	357.46	+ 4	+ 4
Trade, Serv., & Utils.	"	244.55	246.84	+ 7	+ 9
Construction	"	457.75	478.91	+ 16	+ 2
Retail Sales[2]	%	c	c	— 3	— 2
Auto Titles[3]:					
New Cars	No.	1,180	1,181	— 34	— 21
New Trucks	"	283	204	— 8	— 22
Retail Food Prices[15]	1967	b	b	b	b
Bank Debits[5]	1967†	n.a.	n.a.	n.a.	n.a.
Commercial Failures[12]:					
Failures	No.	n.a.	n.a.	n.a.	n.a.
Liabilities	Thous. $	n.a.	n.a.	n.a.	n.a.
Indus. Power Consump.[4]	1967†	75	87	— 17	— 11
Value of Bldg. Const.[9]:					
Total	"	208	51	— 7	— 10
Residential	"	207	25	— 5	— 48
Nonresidential	"	208	81	— 9	+ 41
Steel Production[18]	1967‡	71	68	— 17	— 21
Labor Force Estimates[14]:					
Civilian Labor Force	Thous.	128.8	127.4	— 1	— 2
Civilian Employment	"	115.7	116.0	— 5	— 4
Unemp. Total—No.	"	13.0	11.3	+ 56	+ 19
Unemp., Total—Rate	%	10.1	8.9		

NOTE: All data are for county areas except bank debits and commercial failures, which are for areas within city limits. The indexes of number employed and payrolls and the employee weekly earnings are based on data for production workers in manufacturing, construction workers in contract construction, and nonsupervisory employees in other categories which exclude agriculture, government, education, and public institutions.

• Indicates series charted (page S-1). For sources and footnotes, see page S-3.

Number Employed, Payrolls, and Man-Hours in Ohio Industry

INDUSTRIAL GROUP	NUMBER EMPLOYED[7]					PAYROLLS[7]					MAN-HOURS[7]				
	INDEX (1967 = 100)		CHANGE			INDEX (1967 = 100)		CHANGE			INDEX (1967 = 100)		CHANGE		
	Apr. 1980 (p)	Mar. 1980 (r)	Apr. 1980 from Mar. 1980	Apr. 1980 from Apr. 1979	4 months 1980 from 1979	Apr. 1980 (p)	Mar. 1980 (r)	Apr. 1980 from Mar. 1980	Apr. 1980 from Apr. 1979	4 months 1980 from 1979	Apr. 1980 (p)	Mar. 1980 (r)	Apr. 1980 from Mar. 1980	Apr. 1980 from Apr. 1979	4 months 1980 from 1979
			%	%	%			%	%	%			%	%	%
Total[w] (2,358)[a]	**85**	**85**	**— 1**	**— 6**	**— 5**	**193**	**195**	**— 1**	**— 2**	**+ x**	**81**	**82**	**— 1**	**— 5**	**— 6**
All Manufacturing[w] (1,282)	**72**	**75**	**— 3**	**— 12**	**— 10**	**168**	**174**	**— 3**	**— 3**	**— 7**	**66**	**69**	**— 4**	**— 11**	**— 13**
Chemicals (68)	97	79	+ 23	+ 2	— 10	208	164	+ 26	+ x	— 14	89	75	+ 19	— 4	— 15
Food Products (88)	77	78	— 2	— 2	— 2	188	190	— 1	+ 15	+ 7	67	68	— 1	+ 3	— 3
Bakery	70	69	+ 1	— 5	— 1	168	166	+ 1	+ 9	+ 9	66	65	+ 2	— 1	— x
Miscellaneous	77	79	— 2	— 2	— 3	190	193	— 1	+ 16	+ 7	66	68	— 2	+ 4	— 3
Lumber Products (43)	89	89	— x	— 12	— 12	189	187	+ 1	+ 5	— 1	82	81	+ 1	— 7	— 11
Furniture	99	100	— x	— 11	— 13	212	209	+ 2	+ 7	+ x	97	97	+ 1	— 5	— 10
Miscellaneous	71	71	+ x	— 14	— 12	151	152	— x	— 1	— 5	59	59	+ x	— 12	— 13
Machinery (298)	71	75	— 5	— 9	— 4	157	168	— 6	+ 7	+ 4	67	71	— 6	— 5	— 5
Elec. Mach., Apparatus and Supplies	77	84	— 8	— 10	— 2	179	198	— 10	+ 9	+ 7	72	80	— 10	— 3	— 2
Machine Tools	65	65	— x	+ 2	+ 1	149	154	— 3	+ 17	+ 11	66	68	— 2	+ 6	+ 1
Agricultural Equipment	37	49	— 24	— 33	— 14	89	114	— 22	— 21	— 3	41	55	— 26	— 32	— 14
Special Machinery and Appliances	67	68	— 2	— 10	— 7	139	141	— 2	+ 2	— x	62	63	— 2	— 8	— 9
Metal Products (349)	81	82	— 2	— 11	— 10	192	194	— 1	— 2	— 7	73	74	— 2	— 10	— 13
Foundry Products and Drop Forgings	92	93	— 1	— 13	— 14	230	234	— 2	— 12	— 16	74	75	— 2	— 17	— 19
Pipes, Valves, and Plumbers' Supplies	69	71	— 3	— 24	— 15	183	191	— 4	— 8	— 9	77	80	— 3	— 18	— 17
Screw Machine Products and Hdwe.	88	92	— 5	— 13	— 10	162	176	— 8	— 8	— 10	82	88	— 7	— 16	— 16
Sheet Metal Work	80	83	— 4	— 18	— 18	182	193	— 6	+ 4	— 13	67	71	— 6	— 6	— 18
Steel Works and Rolling Mills	77	77	+ x	— 4	— 5	184	176	+ 4	— 1	— 3	72	70	+ 3	— 9	— 10
Stoves and Furnaces	76	89	— 14	— 32	— 25	156	178	— 12	— 23	— 16	79	90	— 12	— 30	— 24
Miscellaneous	78	80	— 2	— 11	— 9	181	188	— 3	+ x	— 4	67	70	— 3	— 8	— 10
Paper and Printing (135)	62	65	— 3	— 7	— 5	162	162	+ x	+ 5	+ 2	58	59	— 2	— 7	— 7
Paper and Pulp	43	49	— 11	— 6	— 1	163	154	+ 6	+ 11	+ 8	38	39	— 3	— 5	— 3
Printing and Publishing	75	75	+ x	— 5	— 5	170	168	+ 1	— x	— 1	68	67	+ 2	— 5	— 6
Miscellaneous	64	65	— 2	— 8	— 6	153	157	— 3	+ 4	+ 1	62	65	— 4	— 8	— 9
Rubber Products (53)	61	63	— 3	— 14	— 13	148	154	— 4	— 7	— 11	55	57	— 4	— 13	— 17
Tires and Tubes	47	47	+ 1	— 12	— 8	103	101	+ 2	— 5	— 9	35	35	— x	— 13	— 14
Miscellaneous	69	73	— 5	— 15	— 15	181	196	— 8	— 8	— 12	71	76	— 6	— 13	— 18
Stone, Clay, and Glass Products (93)	72	74	— 3	— 5	— 4	178	184	— 3	+ 1	+ 1	77	80	— 4	— 7	— 6
Brick and Tile	52	53	— 3	— 15	— 12	109	113	— 3	— 13	— 7	52	54	— 4	— 19	— 15
Glass	77	79	— 2	— 1	— 4	178	183	— 3	+ 2	+ x	77	79	— 2	— 2	— 4
Vitreous & Semi-vit. China & Pottery	53	57	— 6	— 6	— 2	163	172	— 5	+ 9	+ 9	81	88	— 8	— 4	— 3
Miscellaneous	83	83	— 1	— 8	— 4	207	213	— 3	— 5	— 1	83	86	— 3	— 12	— 9
Textiles (37)	69	72	— 5	— 10	— 8	106	114	— 7	+ x	— 5	67	72	— 7	— 6	— 10
Men's Clothing	82	81	+ 1	— 4	— 4	114	114	— 1	— 1	— 5	74	74	+ x	— 7	— 11
Miscellaneous	61	67	— 10	— 14	— 10	103	119	— 13	+ 1	— 5	62	71	— 13	— 5	— 9
Vehicles (62)	57	70	— 18	— 39	— 31	140	173	— 19	— 34	— 34	50	62	— 19	— 38	— 36
Autos and Parts	58	76	— 23	— 46	— 37	148	193	— 23	— 42	— 41	50	66	— 24	— 46	— 43
Cars, Electric and Steam Railway	99	95	+ 4	— 10	— 4	221	206	+ 7	— 8	— 1	86	82	+ 4	— 15	— 7
Miscellaneous	61	61	+ 1	+ 22	+ 23	140	140	+ x	+ 45	+ 37	60	61	— 1	+ 26	+ 22
Miscellaneous Manufacturing (56)	62	63	— 3	— 9	— 8	144	146	— 1	+ 6	+ 6	59	60	— 2	— 6	— 5
Total Trade, Service, and Utilities[w] (704)	**102**	**101**	**+ 1**	**— x**	**— x**	**237**	**234**	**+ 1**	**+ 8**	**+ 7**	**104**	**103**	**+ 1**	**— x**	**+ x**
Service (209)	125	119	+ 5	+ 3	+ 4	263	253	+ 4	+ 11	+ 12	136	132	+ 2	+ 3	+ 4
Trade, Retail and Wholesale (386)	87	89	— 1	— 4	— 3	202	200	+ 1	+ 3	+ 3	86	86	— x	— 4	— 3
Transportation & Public Utilities (109)	108	109	— x	+ 4	+ 1	297	298	— x	+ 14	+ 9	107	108	— 1	+ 4	+ x
Construction (344)	**53**	**59**	**+ 7**	**— 5**	**+ 2**	**160**	**153**	**+ 4**	**+ 11**	**+ 18**	**58**	**54**	**+ 6**	**+ 2**	**+ 9**
Mines and Quarries (28)	**121**	**126**	**— 4**	**— 6**	**— 2**	**290**	**282**	**+ 3**	**+ 8**	**+ 9**	**77**	**79**	**— 2**	**— 1**	**— 1**

Indexes of number employed and of payrolls are based on the employment of 479,902 persons (production workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory employees in other categories) in 2,358 firms; indexes of man-hours, on the employment of 465,286 production workers and nonsupervisory employees in 2,256 firms. Figures in parentheses show number of firms reporting employment and payrolls. In some cases fewer firms report man-hours. Data do not include agriculture, government, education, or public institutions. For sources and footnotes, see below.

FOOTNOTES FOR BULLETIN TABLES AND CHARTS

†Change in number of failures: [a]Figures in parentheses show number of firms reporting this month; [n.a.]Current data not available; [b]Comparable data not available; [c]Only percentage of change available; [d]Adjusted for seasonal change; [e]Adjusted for number of working days; [f]Four weeks average; [h]Annual rate; [p]Preliminary; [r]Revised; [s]Series revised; [w]Weighted; [x]Less than 0.5 percent; [y]More than 1,000 percent increase.

Primary Sources:

Computed from: [1]Center for Business and Economic Research multiple regression model.

Computed from original data collected by the Center for Business and Economic Research from: [2]Ohio retailers; [3]County Clerks of Courts; [4]Local Power and Light Companies.

Computed by the Center for Business and Economic Research from data supplied by: [5]Board of Governors of the Federal Reserve System; [6]Life Insurance Marketing and Research Association; [7]Division of Research and Statistics of the Ohio Bureau of Employment Services, collected in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor; [8]Federal Power Commission; [9]F. W. Dodge Division, McGraw-Hill Information Systems Company; [10]Dun & Bradstreet, Inc.

Other data sources: [11]Federal Reserve Board; [12]Dun & Bradstreet, Inc.; [13]U.S. Department of Commerce; [14]Division of Research and Statistics of the Ohio Bureau of Employment Services; [15]U.S. Department of Labor; [16]Department of Agricultural Economics, O.S.U.; [17]U.S. Department of Agriculture; [18]American Iron and Steel Institute; [19]U.S. Department of Energy; [20]National Machine Tool Builders' Association; [21]F. W. Dodge Division, McGraw-Hill Information Systems Company; [22]R. L. Polk & Co.; [23]Standard & Poor's Corporation.

Note: In the Ohio-U.S. table, page S-2, dual source notes on a single line of the table stub refer first to Ohio data, second to U.S. data.

Ohio Retail Sales Trends

April Sales of Ohio Retailers declined 1 percent from March sales, and after adjustment for seasonal variation the April index was down 2 percent from the March index. Current April sales were 2 percent lower than year-ago April sales, due somewhat to the earlier date of Easter in 1980 (April 6, 1980, vs. April 15, 1979) which would account for less pre-Easter buying during April this year.

For the First Four Months of 1980, sales totaled 2 percent above 4-month sales in 1979.

By Kind of Business, the drop-off in sales by motor vehicle dealers continues to be highly significant in the state-wide sales picture, with consistent declines occurring in April from March (—4 percent), April from year-ago April (—27 percent), and 4-months 1980 from 4-months 1979 (—17 percent). The only other lines down currently in all three comparisons were women's-ready-to-wear stores and shoe stores. On the other hand, 7 categories showed gains consistently in the current month and year-to-date periods—general stores; men's clothing stores; family clothing stores; paint, glass, and wallpaper stores; hardware stores; drug stores; and hay-feed, farm and garden supply stores.

BULLETIN OF BUSINESS RESEARCH

Published Monthly at The Ohio State University
Columbus, Ohio

ELZY V. MCCOLLOUGH, *Editor*
MARTHA N. STRATTON, *Associate Editor*

Copyright, 1980, by The Ohio State University

EDITORIAL ADVISORY BOARD

JAMES W. DUNLAP, *The University of Akron*
RAYMOND F. BARKER, *Bowling Green State University*
JOSEPH BLACKSHERE, *Central State University*
JOSEPH L. CRAYCRAFT, *University of Cincinnati*
JAN MUCZYK, *Cleveland State University*
JOHN PACILIO, JR., *Kent State University*
ROBERT H. MYERS, *Miami University*
JAMES A. LEE, *Ohio University*
THOMAS A. KLEIN, *University of Toledo*
ROBERT DOLPHIN, JR., *Wright State University*
LAMA KRISHNAN, *Youngstown State University*

Subscription Rates: $4.00 for 1 year; $7.00 for 2 years

INDEXES OF OHIO RETAIL SALES

KIND OF BUSINESS	UNADJUSTED INDEX (1957–59 = 100)		CHANGE			
			Apr. 1980 from Mar. 1980		Apr. 1980 from Apr. 1979	4 months 1980 from 1979
	Apr. 1980 (p)	Mar. 1980 (r)	Not Seas. Adj.	Seas. Adj.		
			%	%	%	%
Total Retail Stores[a] [b]	**279**	**283**	**— 1**	**— 2**	**— 2**	**+ 2**
Grocery Stores	317	328	— 3	— 1	+10	+11
Other Food Stores	316	367	—14	—13	+ 6	+13
General Stores (With Food)	190	171	+11	+ 9	+34	+37
Department Stores	225	257	—13	—12	— 4	+ 1
Other General Merchandise	232	240	— 3	—10	+ 6	+15
Men's Clothing-Furns. Stores	111	92	+21	+12	+ x	+ 1
Family Clothing Stores	159	150	+ 6	+15	+29	+11
Women's Ready-to-Wear Stores	117	125	— 6	— 1	—10	— 4
Shoe Stores	109	110	— 1	+ 2	— 6	— 1
Furniture Stores	213	248	—14	—17	+ 3	+ 4
Household Appl. TV-Rdio Strs.	156	192	—19	—21	—10	+ x
Home Furnishings Stores	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Motor Vehicle Dealers	295	308	— 4	— 2	—27	—17
Other Automotive	156	134	+16	+16	+ 3	—10
Filling Stations	430	456	— 6	— 5	+11	+ 9
Lumber Bldg. Matls. Dealers	225	187	+20	— 3	—19	— 6
Paint, Glass & Wallpaper Strs.	206	162	+27	+ 9	+25	+22
Heat. Plumb. & Elec. Sup. Strs.	189	220	—14	—17	—10	+24
Hardware Stores	260	204	+27	+ 4	+13	+ 3
Farm Equipment Dealers	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Eating & Drinking Places	199	217	— 8	— 9	— 4	+ 2
Drug Stores	346	264	+31	+33	+42	+17
Jewelry Stores	146	157	— 7	—10	— 4	+11
Florists	230	153	+50	+27	—10	— 5
Fuel Dealers	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Hay-Feed, Farm & Grdn. Strs.	655	515	+27	+11	+21	+ 4
State Liquor Stores	154	157	— 2	— 2	+ 9	+ 5

For sources and footnotes, see page S-3.

TABLE 4
TOTAL PERSONAL INCOME, 17 STANDARD METROPOLITAN STATISTICAL AREAS CONTAINING OHIO COUNTIES, 1973-1978

SMSA or Ohio Portion	Total Personal Income (*Million Dollars*)						Percent of Ohio Total	Percent Increase
	1973	1974	1975	1976	1977	1978	1978	1978 from 1973
Akron, OH	3,335.5	3,609.0	3,806.0	4,134.8	4,603.2	5,095.6	6.03	53
Canton, OH	1,910.4	2,108.4	2,234.6	2,447.8	2,712.4	3,040.0	3.60	59
Cincinnati, OH-KY-IN	6,973.0	7,604.6	8,178.6	8,997.8	9,933.4	11,201.4	a	61
Clermont, Hamilton, Warren Counties, OH	*5,687.3*	*6,202.7*	*6,658.0*	*7,307.8*	*8,050.1*	*9,067.6*	*10.74*	59
Cleveland, OH	11,606.8	12,676.0	13,326.2	14,605.0	16,054.9	17,846.2	21.13	54
Columbus, OH	5,192.8	5,662.7	6,044.8	6,674.3	7,468.1	8,278.2	9.80	59
Dayton, OH	4,354.7	4,616.0	4,933.7	5,499.3	6,060.1	6,660.9	7.89	53
Hamilton-Middletown, OH	1,082.9	1,198.3	1,304.3	1,476.4	1,655.1	1,811.0	2.14	67
Huntington-Ashland, WV-KY-OH	1,169.7	1,321.5	1,459.8	1,661.9	1,846.2	2,075.6	a	77
Lawrence County, OH	*218.1*	*244.9*	*263.3*	*296.4*	*327.6*	*369.0*	*0.44*	69
Lima, OH	1,023.5	1,116.7	1,179.5	1,306.2	1,461.3	1,644.0	1.95	61
Lorain-Elyria, OH	1,293.2	1,418.1	1,505.6	1,678.8	1,922.9	2,132.1	2.52	65
Mansfield, OH	652.1	680.0	701.8	781.2	887.7	968.3	1.15	48
Parkersburg-Marietta, WV-OH	631.0	731.9	778.9	876.4	987.3	1,122.6	a	78
Washington County, OH	*228.5*	*268.0*	*284.4*	*324.5*	*361.9*	*406.6*	*0.48*	78
Springfield, OH	874.2	941.1	1,000.8	1,094.7	1,202.7	1,331.1	1.58	52
Steubenville-Weirton, OH-WV	759.0	878.9	949.5	1,066.7	1,175.4	1,274.9	a	68
Jefferson County, OH	*426.3*	*489.0*	*533.0*	*596.2*	*654.4*	*706.0*	*0.84*	66
Toledo, OH-MI	4,026.6	4,308.8	4,596.6	5,125.0	5,677.0	6,276.4	a	56
Fulton, Lucas, Ottawa, Wood Counties, OH	*3,411.5*	*3,657.7*	*3,897.3*	*4,334.7*	*4,761.8*	*5,258.5*	*6.23*	54
Wheeling, WV-OH	822.0	900.8	993.1	1,117.3	1,238.8	1,366.6	a	66
Belmont County, OH	*360.6*	*396.0*	*440.3*	*496.7*	*548.8*	*604.4*	*0.72*	68
Youngstown-Warren, OH	2,745.1	2,981.2	3,104.5	3,459.5	3,827.4	4,239.0	5.02	54
SMSA COUNTIES, OHIO	44,403.6	48,265.8	51,218.2	56,514.4	62,560.4	69,458.6	82.24	56
NON-SMSA COUNTIES, OHIO	9,210.4	10,114.7	10,736.4	12,024.5	13,407.7	14,997.0	17.76	63
OHIO, TOTAL	53,614.0	58,380.5	61,954.6	68,539.0	75,968.1	84,455.6	100.00	58

[a] Not applicable.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

TABLE 5
PER CAPITA PERSONAL INCOME, 17 STANDARD METROPOLITAN STATISTICAL AREAS CONTAINING OHIO COUNTIES, 1973-1978

SMSA or Ohio Portion	Per Capita Personal Income (*Dollars*)						Percent of Ohio Avg.	Percent Change
	1973	1974	1975	1976	1977	1978	1978	1978 from 1973
Akron, OH	4,941	5,388	5,666	6,216	6,985	7,756	99	57
Canton, OH	4,782	5,174	5,537	6,104	6,751	7,530	96	57
Cincinnati, OH-KY-IN	5,030	5,512	5,969	6,542	7,198	8,064	a	60
Clermont, Hamilton, Warren Counties OH	*5,155*	*5,652*	*6,128*	*6,706*	*7,372*	*8,256*	*105*	*60*
Cleveland, OH	5,787	6,384	6,748	7,460	8,250	9,204	117	59
Columbus, OH	4,920	5,310	5,633	6,218	6,922	7,602	97	55
Dayton, OH	5,140	5,496	5,874	6,579	7,289	7,985	102	55
Hamilton-Middletown, OH	4,535	4,956	5,327	6,008	6,617	7,064	90	56
Huntington-Ashland, WV-KY-OH	4,035	4,568	5,052	5,652	6,214	6,920	a	71
Lawrence County, OH	*3,641*	*4,073*	*4,456*	*4,841*	*5,306*	*5,925*	*75*	*63*
Lima, OH	4,836	5,276	5,526	6,198	6,913	7,768	99	61
Lorain-Elyria, OH	4,897	5,311	5,641	6,391	7,175	7,861	100	61
Mansfield, OH	4,986	5,214	5,363	5,970	6,821	7,432	95	49
Parkersburg-Marietta, WV-OH	4,203	4,863	5,122	5,747	6,426	7,118	a	69
Washington County, OH	*3,889*	*4,537*	*4,728*	*5,443*	*6,030*	*6,622*	*84*	*70*
Springfield, OH	4,617	5,009	5,368	5,962	6,580	7,267	92	57
Steubenville-Weirton, OH-WV	4,560	5,331	5,720	6,478	7,174	7,870	a	73
Jefferson County, OH	*4,441*	*5,162*	*5,603*	*6,347*	*7,008*	*7,587*	*97*	*71*
Toledo, OH-MI	5,158	5,506	5,880	6,625	7,333	8,090	a	57
Fulton, Lucas, Ottawa, Wood Counties, OH	*5,201*	*5,561*	*5,946*	*6,704*	*7,390*	*8,164*	*104*	*57*
Wheeling, WV-OH	4,493	4,960	5,469	6,130	6,844	7,546	a	68
Belmont County, OH	*4,378*	*4,830*	*5,339*	*6,016*	*6,711*	*7,397*	*94*	*69*
Youngstown-Warren, OH	5,060	5,422	5,785	6,401	7,059	7,767	99	53
SMSA COUNTIES, OHIO	5,154	5,607	5,969	6,617	7,330	8,113	103	57
NON-SMSA COUNTIES, OHIO	4,326	4,734	4,983	5,595	6,204	6,858	87	59
OHIO, AVERAGE	4,990	5,433	5,771	6,411	7,102	7,857	100	57

[a] Not applicable.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

Personal Income Estimates (Continued from page 5)

TABLE 6
POPULATION, 17 STANDARD METROPOLITAN STATISTICAL AREAS CONTAINING OHIO COUNTIES, 1973-1978

SMSA or Ohio Portion	Population (Thousands)						1978 Ohio Total Percent of	1978 from 1973 Change Percent
	1973	1974	1975	1976	1977	1978		
Akron, OH	675.0	669.9	671.7	665.2	659.1	657.0	6.11	—2.7
Canton, OH	399.5	407.5	403.5	401.0	401.8	403.7	3.76	1.1
Cincinnati, OH-KY-IN	1,386.4	1,379.7	1,370.2	1,375.5	1,380.1	1,389.1	a	0.2
Clermont, Hamilton, Warren Counties, OH	*1,103.3*	*1,097.4*	*1,086.4*	*1,089.7*	*1,092.0*	*1,098.3*	*10.22*	*—0.5*
Cleveland, OH	2,005.6	1,985.6	1,974.9	1,957.7	1,946.0	1,938.9	18.04	—3.3
Columbus, OH	1,055.4	1,066.4	1,073.0	1,073.5	1,078.8	1,088.9	10.13	3.2
Dayton, OH	847.2	839.8	839.9	835.9	831.4	834.2	7.76	—1.5
Hamilton-Middletown, OH	238.8	241.8	244.8	245.7	250.1	256.4	2.39	7.4
Huntington-Ashland, WV-KY-OH	289.9	289.3	288.9	294.1	297.1	299.9	a	3.4
Lawrence County, OH	*59.9*	*60.1*	*59.1*	*61.2*	*61.8*	*62.3*	*0.58*	*4.0*
Lima, OH	211.7	211.7	213.5	210.7	211.4	211.6	1.97	— b
Lorain-Elyria, OH	264.1	267.0	266.9	262.7	268.0	271.2	2.52	2.7
Mansfield, OH	130.8	130.4	130.9	130.8	130.1	130.3	1.21	—0.4
Parkersburg-Marietta, WV-OH	150.1	150.5	152.1	152.5	153.6	157.7	a	5.1
Washington County, OH	*58.8*	*59.1*	*60.2*	*59.6*	*60.0*	*61.4*	*0.57*	*4.4*
Springfield, OH	189.3	187.9	186.4	183.6	182.8	183.2	1.70	—3.2
Steubenville-Weirton, OH-WV	166.5	164.9	166.0	164.7	163.8	162.0	a	—2.7
Jefferson County, OH	*96.0*	*94.7*	*95.1*	*93.9*	*93.4*	*93.1*	*0.87*	*—3.0*
Toledo, OH-MI	780.6	782.6	781.8	773.6	774.2	775.8	a	—0.6
Fulton, Lucas, Ottawa, Wood Counties, OH	*656.0*	*657.7*	*655.5*	*646.6*	*644.4*	*644.1*	*5.99*	*—1.8*
Wheeling, WV-OH	183.0	181.6	181.6	182.3	181.0	181.1	a	—1.0
Belmont County, OH	*82.4*	*82.0*	*82.5*	*82.6*	*81.8*	*81.7*	*0.76*	*—0.8*
Youngstown-Warren, OH	542.5	549.8	536.6	540.4	542.2	545.8	5.08	0.6
SMSA COUNTIES, OHIO	8,616.2	8,606.6	8,580.8	8,541.1	8,535.0	8,561.9	79.66	—0.6
NON-SMSA COUNTIES, OHIO	2,129.1	2,136.7	2,154.5	2,149.0	2,161.2	2,186.9	20.34	2.7
OHIO, TOTAL	10,745.3	10,745.4	10,735.3	10,690.0	10,696.2	10,748.7	100.00	b

[a] Not applicable. [b] Less than 0.05 percent change.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

Sources of Income

Personal income is an all encompassing summary of income received by residents of an area from sources that are grouped into the following segments:

Wages and salary disbursements
Other labor income
Proprietors' income
Dividends, interest, and rent
Transfer payments

A detailed breakdown of sources of personal income in the state of Ohio by year, 1973 through 1978, appears in Table 7. Similar detailed information and ratios using this data are available for each county and SMSA.

Income Relationship of Ohio Counties, 1978

As would be expected, a large share of total personal income was centered in the major urban counties of Ohio in 1978. Cuyahoga County, with Cleveland as its central city, registered $14.7 billion or 17.4 percent of the $84.5 billion total for personal income in Ohio in 1978. Next highest were Hamilton County (Cincinnati), $7.6 billion and 9.0 percent, and Franklin County (Columbus), $6.7 billion and 8.0 percent. Counties ranging downward to the $2 billion mark were Montgomery (Dayton), 5.6 percent; Summit (Akron), 5.0 percent; Lucas (Toledo), 4.6 percent; Stark (Canton), 3.4 percent; Mahoning (Youngstown), 2.6 percent; Lorain (Lorain-Elyria), 2.5 percent; and Trumbull (Warren), 2.4 percent. Counties between $2 billion and $1 billion were Butler (Hamilton/Middletown), 2.1 percent; Lake (Painesville), 2.0 percent; and Clark (Springfield), 1.3 percent.

At the other end of the array with less than $100 million in total personal income were 4 counties in southeastern Ohio. Vinton County was lowest with $52.1 million, only 0.06 percent of the Ohio total. Next lowest were Noble County, 0.07 percent; Morgan County, 0.10 percent; and Monroe County, 0.11 percent.

Per Capita Income Levels, 1978

The average resident of the state of Ohio in 1978 received $7,857 in personal income, slightly more than the $7,840 per capita income in the entire United States. But within Ohio, wide disparities were evident—ranging from $9,503 per capita income for Cuyahoga County residents to $4,274 per capita income for residents of Adams County. These extremes illustrate the geographic pattern of income distribution within the state—with Cuyahoga representing the northern tier of counties where incomes are higher and Adams representing 28 counties in southern and eastern Ohio that in 1965 were classified by the U.S. Congress in its Appalachian Regional Development Act as a part of Appalachia that needed economic assistance.

In 1978, the only other per capita income less than $5,000 was also in the Appalachian area—$4,759 occurring in Vin-

ton County. And 13 of the 14 counties statewide with per capita income between $5,000 and $6,000 were in the southern/eastern area of the state. In that income range, only Morrow County ($5,837) was outside the Appalachian area. The other thirteen counties in Appalachian Ohio with per capita income above $6,000 were still below the Ohio and U.S. averages.

At the upper end of the scale, ranking below Cuyahoga, were 14 counties with 1978 per capita income between $8,000 and $9,000. The second and third ranking counties, Clinton ($8,691) and Hamilton ($8,572), were in the southwestern region of the state; the fifth ranked, Miami ($8,419), and ninth ranked, Montgomery ($8,160), were in west central Ohio. The other 10 counties above $8,000 were in the northern third of the state.

County Income Percent Changes, 1973-1978

As an indication that the southern/eastern Ohio counties have made economic headway, percent increases from 1973 to 1978 in total personal income in all of the 28 Appalachian counties were higher than the statewide increase of 58 percent. After the 94 percent increase in Medina County in northeastern Ohio, increases in Monroe County (92 percent) and Clermont County (89 percent) were the second largest and third largest, respectively, in the state.

On a per capita basis, the first, third, and fourth highest percentage changes were by counties within the Appalachian area—Monroe (+85 percent), Jefferson (+71 percent), and Washington (+70 percent). Fayette County had the second highest 1978-over-1973 gain (72 percent) in per capita income.

On the lower end of the gains in total personal income from 1973 to 1978 were a southwestern county, Preble with 47 percent, and a north central county, Richland with 48 percent. Over all, a high proportion of counties, 64 out of 88, were above or equal to the state average gain in total income during the six-year span.

The lowest percentage gains in per capita income were scattered around the state, with Preble County again experiencing the least percentage increase (41 percent) and Gallia county showing the next lowest gain (48 percent). Per capita income in 4 counties—Morrow, Richland, Trumbull, and Union—was up 49 percent in 1978 from 1973.

SMSA Income

The 39 Ohio counties that are part of 17 areas classified as Standard Metropolitan Statistical Areas accounted for $69.5 billion or 82.2 percent of Ohio's total personal income in 1978. The remaining $15.0 billion, or 17.8 percent, was distributed through the other 49 counties. The largest SMSA total, including consideration of SMSA data for areas overlapping into other states, was $17.8 billion in the Cleveland SMSA. Next highest was the Cincinnati SMSA (Ohio, Indiana, and Kentucky counties) with $11.2 billion. The 3-county Ohio portion only was $9.1 billion, still higher than the Columbus SMSA figure, $8.3 billion.

On a per capita basis, income in the 39 SMSA counties in Ohio averaged $8,113 in 1978, and income in non-SMSA counties in 1978 averaged $6,858. The Cleveland SMSA had the highest per capita income, $9,204. The Toledo and Cincinnati SMSAs at $8,090 and $8,064 ranked second and third, respectively; but, considering the Ohio portions only, the figures were $8,164 for Toledo and $8,256 for Cincinnati—reversing their rankings.

Ohio's non-SMSA counties experienced a greater percentage rise (63 percent) in total personal income from 1973 to 1978 than did the SMSA counties in Ohio (56 percent). Among individual SMSAs, two SMSAs spanning the Ohio River, Parkersburg-Marietta (+78 percent) and Huntington-Ashland (+77 percent) were ahead of all other Ohio-involved SMSAs in comparisons of total income in 1978 and 1973. The lowest percent gain in SMSAs was by the Mansfield SMSA (+48 percent).

Two SMSAs crossing the Ohio River were at the top of 1978-from-1973 percent increases in per capita income—Steubenville-Weirton (73 percent) and Huntington-Ashland (71 percent). The Mansfield SMSA also experienced the lowest per capita gain (49 percent).

If adjustment for the 47 percent increase in the Consumer Price Index from 1973 to 1978 were applied to changes in per capita income for those years in a manner similar to that used for the comparisons of 1970 and 1979 income on page 1, the current-dollar growth of 57 percent in Ohio would be deflated to real-dollar growth of 7 percent. The U.S. increase in constant dollars per capita income also would be 7 percent, since the current-dollar percent change from 1973 to 1978 was the same as Ohio's.

Area per capita income changes from 1973 to 1978 appearing in Tables 2 and 5 could be adjusted in the same way, by using the following equation:

$$(\text{Area } \% \text{ change in current \$s} + 100\%) \div (47\% + 100\%) \times 100\% - 100\% = \text{Area } \% \text{ change in constant \$s}$$

Population, 1973-1978

Population figures in Table 3 and Table 6 are provided for reference. It may be noted, briefly, that statewide population remained at virtually the same level through the 1973-78 period, while population growth from 1973 to 1978 occurred in 64 counties and population losses occurred in 24 counties. Eight SMSAs grew in population over the 1973-1978 period and 9 SMSAs had declines in population. Population of Ohio SMSA counties in 1978 was slightly less than in 1973, but non-SMSA counties added residents.

Personal Income by Source

Table 7, presenting Ohio personal income data by major sources, is not discussed here, but is included on page 8 as an example of information that is available for each Ohio county and SMSA.

MARTHA N. STRATTON *is a member of the staff of the Center for Business and Economic Research, The Ohio State University, and is Associate Editor of the* **Bulletin of Business Research.**

TABLE 7
PERSONAL INCOME BY MAJOR SOURCES, OHIO, 1973-1978
(Thousand Dollars)

Item	1973[a]	1974[a]	1975[b]	1976[b]	1977[b]	1978[b]
Total Labor and Proprietors' Income by Place of Work[c]						
By Type						
Wage and Salary Disbursements	37,800,062	40,678,937	41,587,668	46,147,763	51,186,076	57,058,485
Other Labor Income	2,896,238	3,257,825	3,716,486	4,381,511	5,141,672	5,870,060
Proprietors' Income[d]	3,352,296	3,318,512	3,465,214	3,714,859	4,090,369	4,394,843
Farm	589,949	689,801	681,499	623,209	589,434	551,329
Non-Farm[d]	2,762,347	2,628,711	2,783,715	3,091,650	3,500,935	3,843,514
By Industry						
Farm	712,772	828,284	856,863	824,862	775,722	788,753
Non-Farm	43,335,824	46,426,990	47,912,505	53,419,271	59,642,395	66,534,635
Private	37,779,461	40,488,585	41,494,181	46,453,223	52,205,235	58,476,247
Agricultural Serv., For., Fish., and Other[e]	90,671	98,879	97,575	109,001	132,876	153,051
Mining	311,670	405,824	483,051	572,350	620,121	688,024
Construction	2,489,136	2,576,494	2,577,191	2,799,663	3,126,081	3,623,202
Manufacturing	17,480,900	18,648,434	18,295,996	20,767,885	23,680,896	26,397,333
Non-Durable Goods	4,545,066	4,845,333	4,945,685	5,555,285	6,217,057	6,823,921
Durable Goods	12,935,834	13,803,101	13,350,311	15,212,600	17,463,839	19,573,412
Transportation and Public Utilities	3,111,637	3,266,428	3,319,674	3,764,513	4,243,884	4,797,290
Wholesale Trade	2,367,711	2,698,987	2,958,240	3,215,585	3,534,692	3,952,554
Retail Trade	4,397,247	4,709,955	4,942,682	5,393,172	5,865,916	6,424,355
Finance, Insurance, and Real Estate	1,754,617	1,831,526	1,941 183	2,212,662	2,532,067	2,865,872
Services	5,775,872	6,252,058	6,878,589	7,618,392	8,468,702	9,574,566
Government and Government Enterprises	5,556,363	5,938,405	6,418,324	6,966,048	7,437,160	8,058,388
Federal, Civilian	1,227,878	1,327,157	1,424,028	1,542,880	1,592,059	1,713,317
Federal, Military	231,123	246,787	265,826	254,566	256,076	271,793
State and Local	4,097,362	4,364,461	4,728,470	5,168,602	5,589,025	6,073,278
Derivation of Personal Income by Place of Residence						
Total Labor and Proprietors' Income by Place of Work	44,048,596	47,255,274	48,769,368	54,244,133	60,418,117	67,323,388
Less: Personal Contributions for Social Insurance by Place of Work	2,116,389	2,457,733	2,510,226	2,748,290	3,082,464	3,456,222
Net Labor and Proprietors Income by Place of Work	41,932,207	44,797,541	46,259,142	51,495,843	57,335,653	63,867,166
Plus: Residence Adjustment	—314,033	—323,175	—340,366	—372,572	—419,706	—453,147
Net Labor and Proprietors Income by Place of Residence	41,618,174	44,474,366	45,918,776	51,123,271	56,915,947	63,414,019
Plus: Dividends, Interest, and Rent[f]	6,443,435	7,284,178	7,630,084	8,376,642	9,332,333	10,500,806
Plus: Transfer Payments	5,552,390	6,621,949	8,405,714	9,039,046	9,719,831	10,540,772
Personal Income by Place of Residence	53,613,999	58,380,493	61,954,574	68,538,959	75,968,111	84,455,597
Total Population *(Thousands)*	10,745.3	10,745.4	10,735.3	10,690.0	10,696.2	10,748.7
Per Capita Personal Income *(Dollars)*	4,990	5,433	5,771	6,411	7,102	7,857

[a] Estimates based on 1967 SIC. [b] Estimates based on 1972 SIC.
[c] Consists of wage and salary disbursements, other labor income, and proprietors' income. Primary source for private non-farm wages: Covered Wages—Division of Research and Statistics, Ohio Bureau of Employment Services, Columbus.
[d] Includes the capital consumption adjustment for non-farm proprietors.
[e] Includes wages and salaries of U.S. residents working for international organizations in the U.S.
[f] Includes the capital consumption adjustment for rental income of persons.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

OSU
The Ohio State University

Center for Business and Economic Research
1775 College Road
Columbus, Ohio 43210

Non-Profit Org.
U. S. Postage
PAID
Columbus, Ohio
Permit No. 711

CONGRESSIONAL INFORMATION SERV
ATTN: MR ED KIANKA
7101 WISCONSIN AVE
WASHINGTON DC 20014